

# TELECRAFTERS

## Color Display Generator

### MCD 4001B Microprocessor Controlled Color Display Generator

The TELECRAFTERS MCD 4001B is a microprocessor controlled color display generator which provides the computer system integrator with the ultimate in graphics display capability. The modularity of the MCD 4001B satisfies the most demanding computer system configurations. The multi-channel / multi-feature architecture allows for the most cost-effective configuration without sacrificing future system expansion.

The TELECRAFTERS MCD 4001B features the latest in microprocessor technology with many routine display generation and manipulation functions being processed on-board. The semi-graphics / alphanumeric capability is highly interactive with a dedicated 4K x 16 MOS RAM program store refresh memory. The optional full graphics overlay / underlay is supported by three separate 512 x 256 element addressable image memories. A graphics

instruction storage buffer facilitates interactive communication with the graphics channel.

The MCD 4001B is a rack-mountable self-powered chassis with provision to drive a fully expanded semi/full graphic display. An optional expansion chassis will support up to three combined semi/full graphics displays. The modular system concept allows selection of any RS-170 compatible monochrome or RGB color CRT monitor, projector or hardcopy device. The system Keyboards (MCD 4001KB) may be remote from the MCD 4001B by up to 100'.

Various communications interfaces are available including serial, parallel and TTY compatible. The TTY interface provides the user with immediate display capability in standard alphanumeric format. Dual interfaces are provided for high system availability — dual redundant applications.

## Features

- 8 Color Foreground Background
- 80 Large or Small Characters per Line
- 24 or 48 Lines
- Modular Hardware Architecture
- 3 Display Chassis
- RS-232C Loop (DMA)
- RS-170 Mon
- Full Underlay
- Floppy Interface



Quantity	Model Number	Description
1	9	
\$ 3000.00	USD Section 1900	

Mv 80  
(Processor unspecified.)  
512 x 256. RGB.  
RS-232 etc.



# MCD 4001B Instruction Set

Specifications subject to change without notice.

**Communication Modes**  
 Initialize (TTY Compatible)  
 Local Mode  
 Half Duplex Mode  
 Full Duplex Mode  
 Baud Rate  
 110 2400  
 150 4800  
 300 9600  
 1200

A7 On (Bit #7)  
 A7 Off (Bit #7)  
 Transmit Cursor  
 Transmit Page  
 End of Page  
 Null  
 Bell

Cursor Up  
 Cursor Left  
 Cursor Right  
 Carriage Return

**Edit Functions**  
 Erase Page  
 Erase Line  
 Insert Character  
 Delete Character  
 Roll

**Character Attributes**  
 Foreground On  
 Background On  
 Blink On  
 Blink Off  
 Protect On  
 Protect Off  
 Large Character On  
 Large Character Off

**Full Graphics Instructions**  
 See MCD 4001G Data Sheet

## Option Codes

**Cursor Control**  
 Computer Cursor  
 Operator Cursor  
 Home  
 Line Feed (Cursor Down)

Vertical Mode  
 Horizontal Mode  
 Tabulator

**Characters**  
 64 ASCII Characters  
 64 Special Characters

## Options

Green, Cyan, Yellow,

Options (Upper Case)

Operator cursor

Background

Speed  
 0 Baud to 9600

2 Stop Bits  
 Duplex

Connector  
 (BNC)  
 (JC)  
 Late Sync. (BNC)

Input port

Supply  
 Supply  
 Colors

Blue, Green, Cyan, Yellow,

Characters

For 24 Line x 80 Character Format

For 48 Line x 80 Character Format

04 Special Characters

Same as Option 03

05 Double Height Characters

9 x 7 Characters in 12 x 8 Matrix

- (Requires Option 06)
- 06 48 Line x 80 Character Format  
 5x5 ASCII Characters in 6x8 Matrix  
 6x8 Special Characters in 6x8 Matrix
- 07 Current Loop Interface  
 20mA TTY Compatible  
 Receives Passive Only  
 Sends Active or Passive
- 08 Second RS-232C Interface
- 08A Second 20mA Interface
- 09 DMA Interface  
 TTL Input/Output Levels  
 70 KByte Data Rate
- 10 Special Keyboard Engraving
- 11 Graphic Mode (MCD 4001G)
- 12 Vector Generator
- 13 Circle Generator
- 14 2D-Graphics Software Package  
 Including Vectors, Circles, and Polygons
- 15 Dual Floppy Disk Model 4010
- 15A Single Floppy Disk Model 4010A
- 16 Joystick Model 4020
- 17 Lightpen Model 4030
- 18 Trackball Model 4040

## Physical Specifications

MCD 4001B Single Channel Generator Chassis  
 Dimensions

19 Inch Rack Mountable  
 5 1/4 Inches High x 10 Inches Deep  
 Weight - 22.5 Lbs.

Power Requirements

115V  $\pm$  10% @ 60Hz  
 Fused @ 3 Amps

MCD 4001B Multi Channel Generator Chassis

Dimensions

19 Inch Rack Mountable  
 10 1/2 Inches High x 18 Inches Deep  
 Weight - 65 Lbs.

Power Requirements

115V  $\pm$  10% @ 60Hz  
 Fused at 10 Amps

Environmental Specifications

Temperature — Operating + 10°C to + 45°C  
 Storage — 25°C to + 85°C

Relative Humidity — 10% to 95% non-  
 condensing

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 (717) 564-8993



# TELECRAFTERS

## Color Display Keyboard

### MCD 4001KB Keyboard

The TELECRAFTERS MCD 4001KB is the interactive control Keyboard for the MCD 4001 Microprocessor Controlled Color Display Generator. The Keyboard connects directly to the display generator and is the prime operator/programmer interface. This all solid state unit features long life Hall effect keyswitches rated at 10 million operations each. All keys have a timed repeat function and will enter a fast repeat mode after extended depression. The Keyboard is physically and logically organized to service skilled data entry operators, system or plant operation personnel, and system programmers without compromising interaction by any one group.

The Keyboard is configured for rapid unambiguous operator interaction with the display system. All frequently used data entry, data edit and computer control functions are simple one key operations. Keys are grouped and color coded, according to function. An audible operator

alarm is built in for receive or send type signalling. An optional 32 special function keys are available for initiating user defined computer sub-routines. All keys have large legends on a mat finish non-glare surface for easy viewing from a seated or standing position.

The Keyboard may also be used for system initialization and display/picture generation through a series of higher order multi-key commands. Programmers can emulate computer instructions via these special routines. Communication mode i.e. full or half duplex and baud rate as well as selectable vertical and horizontal writing modes are typical of these multi-key instructions. The optional DFD 4010 Dual Floppy Disk is also controlled by this feature. Special character symbols may be engraved on the keycaps to aid in picture generation.

The MCD 4001KB Keyboard is housed in an attractive molded plastic case. The interface to the display

generator is via a multi-conductor cable which can be up to 100 feet long. This feature permits the display to be mounted in any position minimizing the need for an unconditioned environment. The keyboard is flush mounted for compact purposes.

#### Features

- Local Control
- Send/Receive
- Non-destructive
- Special Function Keys
- Multi-key Commands
- Communication Mode
- Full or Half Duplex
- Baud Rate Selection
- Vertical/Horizontal Writing Modes
- Optional DFD 4010 Dual Floppy Disk
- Special Character Symbols
- Audible Operator Alarm
- Single Key Operations
- Interactive Programming
- Multiple Programming
- Case Mounting
- Low Profile Design





## 64 ASCII Symbols

48 Standard Keys

16 Shifted Keys

## Edit Keys

Tab

Line Feed

Carriage Return

Black

Red

## Full Graphics Control (Option)

Write Graphic

Move Graphic

Load Index

Execute Vector

Execute Circle

Erase Page

Transmit Cursor

Transmit Page

See MCD 4001G Full Graphics Data Sheet for Additional Multiple Keystroke Functions

## Multiple Keystroke Functions

Baud Rate Key Followed by:

01 = 110 Baud

02 = 150 Baud

03 = 300 Baud

04 = 1200 Baud

05 = 2400 Baud

06 = 4800 Baud

07 = 9600 Baud

Escape Key Followed by:

P = Half Duplex

Q = Local

R = Full Duplex

S = Write Vertical Mode

T = Write Horizontal Mode

U = Parity Off

V = Print Initiate

X = Test On

Y = Send Xmit Page Code

Escape Key = Release (Exit From Test)

See DFD 4010 Dual Floppy Disk Data Sheet for Additional Multiple Keystroke Functions

## Applications

ad  
ons Keypad  
ontrol Keypad

Operations Per Key  
able of Driving 100 Feet of  
e

Plate  
tion Keys  
tion Keys  
Engraving  
Color Keys

## Physical Specifications

Plastic Case

Dimensions

19.5 Inches Wide x 3.0 Inches High x

9.5 Inches Deep

Weight - 3.5 Pounds

Flush Plate Mount

Dimensions

18.5 Inches Wide x 2 Inches High x

7 Inches Deep

Weight - 4 Pounds

Power Requirements

Powered by MCD4001 Display Generator

Environmental Specifications

Temperature - Operating +10C° to +45C°

Storage - 25C° to +85C°

Relative Humidity - 10% to 95%

Non-condensing

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AP 80

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## Color Display Floppy Disk

### DFD 4010 Dual Floppy Disk

The TELECRAFTERS DFD 4010 is the Dual Floppy Disk used with the MCD 4001 Microprocessor Controlled Color Display System. The unit connects directly to and is controlled by the display generator. The DFD 4010 is intended for use as a local off-line display/picture storage device; however it may be addressed by the host computer as an extension of computer memory. The unit consists of two disk drives and associated power supplies housed in a rack-mountable drawer assembly.

The DFD 4010 Dual Floppy Disk offers a convenient means to prepare and store background (static) display/picture information. Most interactive systems require a minimum of two picture files — one static (background) and one dynamic (foreground). The disk can be used to write

the background while the host computer is busy assembling the foreground. The disk also provides a rapid means to generate and alter typical picture formats prior to computer coding. Achieving optimum formats including color and symbol selection is paramount to smooth on-line operator interaction. Forms and other repetitive formats may also be stored on disk further off-loading the host computer.

The DFD 4010 is controlled by firmware onboard the MCD 4001 display generator. The hardware interface is also contained in the generator with inter-unit communication being via two multi-conductor cables. Each disk, when formatted by the MCD 4001 will store 37 display/pictures (complete 80 character by 48 line pages). The disk firmware generates diagnostic

statements which are displayed on the bottom of the display. The preempt buffer stores data already on the MCD 4001. The display is controlled by a special keyboard equivalent to the instruction

#### Features

- Stores 37 display/pictures
- 37 display/pictures per disk
- Interface to MCD 4001
- Firmware controlled
- Keyboard equivalent
- Full screen display
- Complete 80 character by 48 line pages
- Features diagnostic statements
- Standalone operation





## Instructions from the MCD 4001KB Keyboard

All Instructions are Preceded by ESC (Escape)

Format Disk / Followed by 1 or 2

Write Disk [ Followed by AA thru EJ

Read Disk Z Followed by AA thru EJ

Copy Disk W (Only copies Disk 1 to Disk 2)

Reset Error ]

Display/Picture #	# Drive 1	Drive 2
1	AA	CF
2	AB	CG
3	AC	CH
4	AD	CI
5	AE	CJ
6	AF	CK
7	AG	CL
	AH	CM
	AI	CN
	AJ	CO
	AK	CP
	AL	DA
	AM	DB
	AN	DC
	AO	DD

Display/Picture #	Drive 1	Drive 2
16	AP	DE
17	BA	DF
18	BB	DG
19	BC	DH
20	BD	DI
21	BE	DJ
22	BF	DK
23	BG	DL
24	BH	DM
25	BI	DN
26	BJ	DO
27	BK	DP
28	BL	EA
29	BM	EB
30	BN	EC
31	BO	ED
32	BP	EE
33	CA	EF
34	CB	EG
35	CC	EH
36	CD	EI
37	CE	EJ

## 4010 Specifications

### Physical Specifications

#### Dimensions

19 Inch Rack Mountable

10½ Inches High x 18 Inches Deep

Weight - 45 pounds (Dual Disks)

Weight 32 pounds (Single Disk)

#### Power Requirements

115V ± 10% @ 60 Hz

Fused @ 3 amps (Dual Disk)

Fused @ 2 amps (Single Disk)

#### Environmental Specifications

Temperature - Operating + 10°C to + 45°C

Storage - 25°C to + 85°C

Relative Humidity 20% to 80%

Non-Condensing



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HARRISBURG, PENNSYLVANIA 17109  
PHONE 717 - 564-8993

Reference: Computer Design  
November 1979 Issue

Gentlemen:

TELECRAFTERS is pleased to provide the enclosed data in response to your recent request.

The data sheets describe typical systems features and applications on the front, while details of programming and interfacing are presented on the reverse side.

A typical system is comprised of one or more MCD 4001B Microprocessor Color Display Generators, MCD 4001KB Keyboards and any commercial RS-170 Compatible Color CRT Monitor. The total MCD 4001 series of industrial quality and is intended for 24 hour operation in demanding applications. A simple instruction set provides for rapid generation of interactive programs. The RS-232C communications interface is universal and lends itself to small, medium, or large scale host computer. MCD 4001B semi-graphics generator may be augmented by an optional run-time overlay or underlay. The MCD 4001G Graphics Generator is industry's first interactive full graphics display with three 512 x 256 image refresh memories to 8K bytes of program store memory. A dual disk unit, DFD 4010, is offered for picture storage in micro computer based systems or may be used for display prior to full scale systems implementation.

TELECRAFTERS would be pleased to provide a more intensive programming demonstration and an on-site demonstration to those with immediate applications.

We appreciate your interest in our products and look forward to being of service to you.

Very truly yours,

*Betty H. Bolton*

for  
Jack Adair  
Vice President of Sales

Enclosures



COMING EVENTS

1. 1981 CLEANUP: Dumpsters will be placed at the following locations within the Township. PLEASE DO NOT LEAVE HOUSEHOLD GARBAGE (Foodstuffs, etc.) ORGANIC MATERIALS OR TIRES. PLEASE PLACE THE ITEMS IN THE DUMPSTERS.  
 Thursday - April 30 to Sunday May 3 8:00 AM to 5:00PM Rock Road Garage  
 Thursday - May 7 to Sunday May 10 8:00 AM to 5:00PM Municipal Parking  
 Lot on Schooley's Mtn. Road. (One block north of Fairview Avenue, adjacent to old Post Office).
2. ADULT SOFTBALL PLAYERS: Men and Women: If you are interested in forming an adult league for men and/or women, come to the May 1, 1981 meeting of the Recreation Committee - 8:00 PM at the Municipal Building. Individual players are welcome.
3. LONG VALLEY FESTIVAL: sponsored by the Long Valley Jaycees to be held on Saturday, May 23rd at the Long Valley Middle School. Watch for the Festival Posters.
4. COME TO THE PARADE: Long Valley Fire Company #1 Sixtieth Anniversary Parade to be held on Saturday, June 6th beginning at 2:00 PM. The parade will form at Old Farmers Road and Route 24 and the line of march will be down Route 24 to the Long Valley Middle School. There will be over sixty fire companies participating along with floats from various organizations. If your group is interested in marching in the parade, please contact Tom Carey, Parade Chairman, at the Long Valley Fire Company Fire House on Fairview Avenue, Long Valley.
5. BOARD OF HEALTH PROGRAMS: For information on any of the following, please call the Board of Health at 876-4711 or 876-3315 from 9:00 AM to 5:00 PM weekdays.
  - a) Blood Pressure Screening - First Wednesday of every month at the Long Valley Pharmacy on Route 24. Come and have your pressure checked - your life may depend on it.
  - b) Well Baby Clinic - May 20, 1981, at Long Valley First Aid Squad by appointment only. For appointment call 876-4711. This is held every other month and is for pre-school children. A Doctor and Nurse are available to give shots.
  - c) Cancer Screening Clinics and SMAC Blood Tests - will be offered this Fall for a minimal fee. The exact dates have not been set yet. Please call the Health Department for more information.
6. BLOOD DRIVE: Saturday, June 20, 1981 at Our Lady of the Mountain Parish Hall on Schooley's Mtn. Road, under the sponsorship of the North Jersey Blood Center. Under the Blood Assurance Protection Program, up to eight pints per family is available annually upon the donation of one pint of blood. To assure success at least 50 pints of blood must be guaranteed. Lack of interest in this program will cause it to be cancelled. The average adult has 10 to 12 pints of blood in his body. Every 3-3/4 seconds someone needs a transfusion. No substitute for blood has ever been found, so when you need it there is only one place to get it - from another human being who is willing to share this gift of life.  
 If you are concerned that this worthwhile program continues, do not hesitate to call the Health Department at 876-3315. REMEMBER - we must have at least 50 donors to continue the program!
7. SUMMER MORNING RECREATION: Will begin on Monday, July 6, 1981 and run through Friday July 31st from 9:00 AM to 12:00 Noon, weekdays only. Children entering 1st grade through 6th grade will be eligible. Forms for registration will be available through the schools and at the Municipal Building in early June. Registration will end June 30, 1981. Fees will be set by the Township Committee and will be listed on the forms.
8. DOG CENSUS: The dog census is now taking place in Washington Township. Any dog found without a current license will subject the owner to a fine. If your dog does not have a current license, please fill out this form and send it along with a proof of rabies vaccination, a self-addressed stamped envelope and a check for \$5.00 to: Washington Township Dog Licensing Official, P.O. Box 216, Long Valley.

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Your name \_\_\_\_\_ Tel. No. \_\_\_\_\_  
 Street Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Dog's Name \_\_\_\_\_ Color \_\_\_\_\_ Sex \_\_\_\_\_ Age \_\_\_\_\_



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---

Your name \_\_\_\_\_ Tel. No. \_\_\_\_\_  
Street Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Dog's Name \_\_\_\_\_ Color \_\_\_\_\_ Sex \_\_\_\_\_ Age \_\_\_\_\_  
Breed: \_\_\_\_\_ Hair (long or short) \_\_\_\_\_

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9. **FREE RABIES CLINIC:** October 1981 - Watch the Observer-Tribune for dates.  
**VOLUNTEERS NEEDED FOR THE FOLLOWING POSITIONS:** Director of Aging, Recreation Committee, Economic Development Committee, W.T.M.U.A.. All units of the Washington Township Fire Companies, Fairmount, Long Valley and Schooley's Mtn., Long Valley First Aid Squad are in need of active volunteers. Send letters of application to the Township Building, P.O. Box 216, Long Valley, N.J. 07853 for any of the above positions.



SPECIAL NOTICES

REDISTRICTING: Washington Township is now in the 23rd Legislative District and our representatives are Senator Walter Foran, 135 Main Street, Flemington, N.J. 08822 Assemblywoman Barbara W. McConnell, 57 Main Street, Flemington, N.J. 08822, and Assemblyman Karl Weidel, 9 Weidel Drive, Pennington, N.J. 08534

NOTICE TO SENIOR CITIZENS, CERTAIN PERMANENTLY AND TOTALLY DISABLED PERSONS AND CERTAIN SURVIVING SPOUSES

New legislation was approved March 26, 1981 increasing income limitations and the amount of the property tax deduction as follows:

- 1981 income limitation - \$8,000.00 - maximum property tax deduction \$200.00
- 1982 income limitation - \$9,000.00 - maximum property tax deduction \$225.00
- 1983 and thereafter income limitation - \$10,000.00 - maximum property tax deduction contact the tax collector's office. Property owners currently receiving \$160.00 deduction will automatically receive the increase to \$200.00.

SWIMMING POOLS: Due to the present drought conditions and the resulting restrictions on the use of water, building permits for both above ground and in ground swimming pools are being granted on a day-to-day basis. It is suggested that anyone wishing to install a pool should first contact either the Code Enforcement Department at 876-4711 or the Municipal Utilities Authority Director at 876-3145.

PERMIT FEES: Construction permits for approved solar hot water systems and wood/coal burning stoves are now exempt from permit fees. Permits are still required and inspections will be made, but there is no charge for this service.

HOUSE PLANS: The Code Enforcement Department is presently in the process of revamping the storage and filing system for construction plans and permits. If you are interested in having your plans, and your home is at least six years old, simply call the Code Enforcement Office at 876-4711 with the following information:

1. Your name and address
2. Block and Lot number from your tax bill
3. The original owner's or builder's name if available. If your plans are on file and can be located, we will get back to you within a few days and you may pick them up.

HOUSE NUMBERING: Last year at this time an appeal was made to all residents to post their house numbers on their property - with good visibility from the street. Although many citizens did cooperate, many did not and these houses are still unidentified and their owners are risking a slower response time for our emergency services because they cannot immediately find these houses. For your house number information, please call the Code Enforcement Department at 876-4711. PLEASE FOR YOUR SAFETY, POST YOUR HOUSE NUMBER PROMINENTLY.

EMERGENCY SERVICES FOR POLICE, FIRE AND FIRST AID - CALL 876-3232

This is the emergency number for all Washington Township residents.

FROM THE MUA IT IS UNLAWFUL TO ATTACH YOUR SUMP PUMP TO YOUR SEWER LINE. Sump pumps should be run to a storm sewer, not a sanitary sewer.

IT IS UNLAWFUL TO INSTALL A GARBAGE DISPOSAL UNIT IF YOU ARE SERVICED BY THE W.T.M.U.A. The sewer treatment plant is not set up to deal with garbage and can be severely damaged when garbage disposal units are used.

MUNICIPAL PARKING LOT: The Township maintains a commuter parking lot located on Schooley's Mountain Road, in the old railroad right-of-way between Ballentine Lumber Co., and the old post office building. Residents may leave their cars at the lot, free of charge, and continue their travels on the Morris County Metro Bus that runs from Washington Township through Morristown. The continued availability of the lot will depend upon public response.



The gypsy moth has long been one of our most important forest insect pests. In 1896 a French biologist introduced it into Medford, Massachusetts for use in experiments designed to yield a hardy silk-producing caterpillar.

Present control practices will not prevent the spread of the gypsy moth throughout its potential range. Moreover, cyclic reinfestations will occur in areas containing primary host trees.

1. Eggs are deposited in a buff colored, velvety mass of 500 or more and measure 1 to 1½ inches long and ½ or more inches wide. They can be found on natural and manmade objects in almost any location: on trees, stone fences, buildings, wood piles, tents, dog and bird houses, and vehicles. Flightless egg-laden female moths cover egg masses with buff-colored hairs from their bodies. The egg stage is found from late June to mid-April.

2. Eggs begin to hatch in mid to late-April. Newly hatched caterpillars are hairy and blackish. They measure 1/16 of an inch long. At first they tend to congregate on or near egg masses and then climb to the tops of trees or other objects. The natural spread of caterpillars occurs as they drop from the tree tops on silken threads and are then carried as much as several miles by wind currents. The hatching period may last a month or more.

3. Second and third stage caterpillars are ½ to 1 inch long and predominantly black with orange markings down their backs.

4. Caterpillars feed on the foliage of many types of forest, shade, and fruit trees. The greatest defoliation occurs in forests composed predominantly of white oak or trees of the white-oak group. Older caterpillars may feed on hemlock, pine and spruce. Tree species not favored by caterpillars include yellow poplar, dogwood, holly, locust, ash, red cedar, sycamore and catalpa.

5. Late stage caterpillars are hairy, brownish or black, and range from 1½ to 2½ inches long. They are distinguished by five pairs of blue spots beginning at the head, followed by six pairs of red spots. As caterpillars mature, they may vary their feeding habits from daytime to nighttime. They usually climb down trees to find resting places between bark ridges or under objects that provide shelter. Caterpillars may be active from mid-April to mid-July.

#### CONTROL MEASURES

*Bacillus thuringiensis* (B.T.) is a bacteria which attacks the caterpillar stage of the gypsy moth. It is available under the name of THURICIDE, DIPEL, and others. The timing of application is important - read label directions.

- a) Tree mortality reduced to near 0 levels.
- b) Larval mortality between 75% and 90%.
- c) 50% to 100% foliage protection.

Egg masses can be destroyed from August to late April by scraping them off with a penknife or a thin putty knife. Collect the egg masses in a container and destroy them by burning. All egg masses which fall to the ground while scraping should be collected and burned.

Beginning from mid to late May, burlap or cloth strips tied to the trunks of trees will capture some gypsy moth caterpillars. Burlap or cloth strips should be cut at least 18 inches wide. Place the strip around the tree and secure it around the middle with twine. Fold the upper edge of the strip down over the twine to form a skirt-like band. Daily inspection of the strips is necessary. Caterpillars hiding in the strips are removed and killed by hand. The bands can be removed in late July.

Foresters have had a change of thought on their recommendation to use creosote to paint egg masses on tree trunks. Creosote, a deeply penetrating wood preservative, does penetrate the eggs and destroy them, but it also penetrates into the tree trunk and may damage them. Any materials painted directly on tree trunks, particularly sticky bands or grease, also tend to be absorbed and should not be used. If a sticky band is preferred, wrap a piece of cotton batting around the tree first, then tie on a piece of tar paper or aluminum foil and paint it with the sticky material.

The Environmental Commission is against the use of dangerous or potentially dangerous chemicals.



natural and manmade objects in almost any location: on trees, stone fences, buildings, wood piles, tents, dog and bird houses, and vehicles. Flightless egg-laden female moths cover egg masses with buff-colored hairs from their bodies. The egg stage is found from late June to mid-April.

2. Eggs begin to hatch in mid to late-April. Newly hatched caterpillars are hairy and blackish. They measure  $1/16$  of an inch long. At first they tend to congregate on or near egg masses and then climb to the tops of trees or other objects. The natural spread of caterpillars occurs as they drop from the tree tops on silken threads and are then carried as much as several miles by wind currents. The hatching period may last a month or more.

3. Second and third stage caterpillars are  $\frac{1}{2}$  to 1 inch long and predominantly black with orange markings down their backs.

4. Caterpillars feed on the foliage of many types of forest, shade, and fruit trees. The greatest defoliation occurs in forests composed predominantly of white oak or trees of the white-oak group. Older caterpillars may feed on hemlock, pine and spruce. Tree species not favored by caterpillars include yellow poplar, dogwood, holly, locust, ash, red cedar, sycamore and catalpa.

5. Late stage caterpillars are hairy, brownish or black, and range from  $1\frac{1}{2}$  to  $2\frac{1}{2}$  inches long. They are distinguished by five pairs of blue spots beginning at the head, followed by six pairs of red spots. As caterpillars mature, they may vary their feeding habits from daytime to nighttime. They usually climb down trees to find resting places between bark ridges or under objects that provide shelter. Caterpillars may be active from mid-April to mid-July.

### CONTROL MEASURES

*Bacillus thuringiensis* (B.T.) is a bacteria which attacks the caterpillar stage of the gypsy moth. It is available under the name of THURICIDE, DIPEL, and others. The timing of application is important - read label directions.

- a) Tree mortality reduced to near 0 levels.
- b) Larval mortality between 75% and 90%.
- c) 50% to 100% foliage protection.

Egg masses can be destroyed from August to late April by scraping them off with a penknife or a thin putty knife. Collect the egg masses in a container and destroy them by burning. All egg masses which fall to the ground while scraping should be collected and burned.

Beginning from mid to late May, burlap or cloth strips tied to the trunks of trees will capture some gypsy moth caterpillars. Burlap or cloth strips should be cut at least 18 inches wide. Place the strip around the tree and secure it around the middle with twine. Fold the upper edge of the strip down over the twine to form a skirt-like band. Daily inspection of the strips is necessary. Caterpillars hiding in the strips are removed and killed by hand. The bands can be removed in late July.

Foresters have had a change of thought on their recommendation to use creosote to paint egg masses on tree trunks. Creosote, a deeply penetrating wood preservative, does penetrate the eggs and destroy them, but it also penetrates into the tree trunk and may damage them. Any materials painted directly on tree trunks, particularly sticky bands or grease, also tend to be absorbed and should not be used. If a sticky band is preferred, wrap a piece of cotton batting around the tree first, then tie on a piece of tar paper or aluminum foil and paint it with the sticky material.

The Environmental Commission is against the use of dangerous or potentially dangerous chemical sprays. Properly handled, Sevin is an effective control for the gypsy moth. Most home-type sprayers will not reach the upper branches and leaves and the services of professionals are required. If you are spraying be sure to read and follow the manufacturer's directions. Courtesy dictates that you advise your neighbors of your spray plans.

In the event no action or treatment is taken natural and introduced predators and parasites will continue to exist in areas of defoliation and will produce an eventual "crash" of the gypsy moth population.



## WELFARE BOARD

Director - Sheila Marriott '82  
Member - Shirley Lipkin '81  
Member - Dianne Formichella '81  
Member - Judy Zingg '82  
Public meetings: April 24;  
Aug. 28; Nov. 20 - 4:00 PM

## BOARD OF HEALTH MEMBERS

Chairman - Mary Darter '83  
Member - Marion Goodenough '81  
Member - Joseph Pelosi '82  
Member - Dr. R. Leidl '82  
Member - Sidney Taylor '83  
Bd. of Health Physician -  
Dr. Walter Kossmann  
Board Secretary - Shirley Lipkin -  
876-3315  
Public meetings held 2nd Wed.  
each month at 7:30 PM

## ECONOMIC DEVELOPMENT COMM. MEMBERS

Chairman - Luther LaRue '81  
Member - Lindley GeBorde '81  
Member - Fred Cotterell '81  
Liaison - Tracy Tobin  
Public meetings held 1st Mon.  
each month at 8:00 PM

## MUNICIPAL UTILITIES AUTHORITY

Chairman - Craig Randolph '86  
Member - Edward Shields '82  
Member - George Nagel '84  
Member - Michael Rapach '85  
Member - Robert Schlenner '83  
Exec.Dir. - Herb Grueterich -  
876-3145  
Sec./Treas. - Eugenia Horan -  
876-3145  
Engineer - Paul Costic 852-8656  
Public meetings held 3rd Wed.  
each month at 8:00 PM at MUA  
offices - 46 E. Mill Rd.  
Long Valley, NJ

## CIVIL DEFENSE DIRECTOR

Thomas Zellman '83 - 876-3232

## SOLID WASTE ADVISORY COMMITTEE

Chairman - Peter Joseph '81  
Member - Germaine Carl '81  
Member - Robert Bruner '81  
Member - Nancy Domas '81  
Member - Stanley Michna '81  
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Public meetings held 2nd & 4th  
Tues. each month at 8:00 PM

## HISTORIC HERITAGE COMMITTEE

Member - Harley Wilson '82  
Member - John Brahney '82  
Member - Joanne Svoboda '82  
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## WASHINGTON TOWNSHIP FREE PUBLIC LIBRARY (opening 4/27/81)

Corner of Schooley's Mtn. Road and  
East Springtown Road  
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### HOURS:

Mon., Tues., Wed - 10:00 AM to Noon  
2:00 PM to 5:00 PM  
7:00 PM to 9:00 PM

Thursday - 7:00 PM to 9:00 PM  
10:00 AM to Noon  
2:00 PM to 5:00 PM

Saturday - 10:00 AM to 1:00 PM  
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## WASHINGTON TOWNSHIP SCHOOLS

Supt., Benedict Cucinella 876-4172  
Board of Education 876-3616  
Flocktown Rd. School (3-5) 852-1376  
Walter Kossmann School (K-2) 850-1010  
Old Farmers Rd. School (K-5) 876-3865  
Long Valley Middle School (6-8) 876-3434  
• West Morris Central High School 879-5212

## GENERAL INFORMATION

Dog licensing: Free rabies clinic each  
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Food Stamps: 2nd Wed. from 1:30 PM to  
4:00 PM at the Municipal Bldg.

Parks: Schooley's Mtn. Park (County) -  
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Hacklebarney State Park - 879-5677  
Scott Park; Cataract Park; and  
Sandt Tract (Municipal) - 876-3315

## Churches:

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D I R E C T O R Y

MUNICIPAL OFFICES

43 Schooley's Mtn. Road  
P.O. Box 216  
Long Valley, NJ 07853

876-3315



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Mayor-Edward Shields '82 876-3104  
Vice Mayor - Thomas Kimpland '82 876-4472  
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Vice Chairman: Comm. Tobin

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Vice Chairman: Comm. Taylor

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Vice Chairman: Mayor Shields

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887-2270  
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876-3315

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Alternate - James Williams '81

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Atty - James Laughlin 879-6200  
Board Clerk - Patricia Cerrigone  
876-3315

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852-4610

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MORRIS COUNTY, NEW JERSEY

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D I R E C T O R Y

MUNICIPAL OFFICES

43 Schooley's Mtn. Road  
P.O. Box 216  
Long Valley, NJ 07853

876-3315



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328-1825  
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TOWNSHIP OF WASHINGTON  
BOX 216  
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Resident  
Schoolley's Mtn. P.O.  
Schoolley's Mtn. N.J. 07870

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Vice Chairman - Gene Opdyke '84  
Member - John Turick '81  
Member - Alan Hochberg '84  
Member - James Bois '82  
Member - Harold Cheripka '83  
Member - Al Troianello '84  
Alternate - James Williams '81

# ZONING BOARD

Atty - J.  
Board Clerk  
876-3  
Public m  
Thurs

# RECREATION

Dir. - R  
8  
Member -  
Member -  
Member -  
Member -  
Member -  
Member -

Public m  
each mon

# SHADE TREE

Chairman  
Secretary  
Member -  
Member -  
Member -

Public m  
each mon

# ENVIRONMENTAL

Chairman  
Member -  
Member -  
Member -  
Member -  
Member -  
Advisory  
Advisory  
Advisory

# PUBLIC MEETINGS

Public m  
Mon. & 3  
at 8:00 P  
DEPARTMENT  
Senior C  
Julian  
Liaison